

**eTable 1.** Patients information. Age = age at injury in years; TBI = traumatic brain injury; GCS = best Glasgow Coma Score selected in the 24h acute electroencephalogram recording; Acute EEG = electroencephalogram recording performed at the acute stage (time post-injury in days); Acute MRI = Magnetic Resonance Imaging recording performed at the acute stage (time post-injury in days); Chronic MRI = Magnetic Resonance Imaging recording performed at 6-month follow-up (time post-injury in days); GOS-E<sub>6m</sub> = Glasgow outcome scores – extended at 6 months.

N	Gender	Age	Etiology	GCS	Acute EEG	Acute MRI	Chronic MRI	GOS-E <sub>6m</sub>
1	Male	24	TBI	10	2	8	183	7
2	Female	57	TBI	3	8	17	176	3
3	Female	54	TBI	9	14	16	174	5
4	Male	21	TBI	7	1	13	174	3
5	Male	38	TBI	7	6	6	172	3
6	Male	43	TBI	7	4	4	186	6
7	Male	21	TBI	7	5	4	185	7
8	Female	35	TBI	7	2	3	158	5
9	Male	31	TBI	9	1	3	211	5
10	Male	48	TBI	8	5	5	191	5
11	Male	36	TBI	3	2	3	204	5
12	Female	77	TBI	9	8	9	184	3
13	Male	41	TBI	6	1	1	193	2